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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/810,366	03/15/2001		Timothy B. Cowles	00-0058	9208	
7590 02/23/2004			EXAMINER			
Charles Brant Mail Stop 525	tley		TU, CHRISTINE TRINH LE			
Micron Technology, Inc.				ART UNIT	PAPER NUMBER	
8000 S. Federa Boise, ID 83	ıl Way			2133	5	
,				DATE MAILED: 02/23/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	
	,	09/810,366	COWLES, TIMOTHY B.	
	Office Action Summary	Examiner	Art Unit	
		Christine T. Tu	2133	
Pei	The MAILING DATE of this communication appried for Reply	opears on the cover sheet w	ith the correspondence address	
1 6	• •	LV IC OFT TO EVOIDE 4.8	AONITUVO) EDONA	
	A SHORTENED STATUTORY PERIOD FOR REPITHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a ply within the statutory minimum of thi d will apply and will expire SIX (6) MO tte, cause the application to become A	reply be timely filed ty (30) days will be considered timely. NTHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).	on.
Sta	ntus			
	1)⊠ Responsive to communication(s) filed on 15 l	March 2001.		
:		is action is non-final.		
	3) Since this application is in condition for allows	ance except for formal mat	ters, prosecution as to the merits	is
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.I	D. 11, 453 O.G. 213.	
Dis	sposition of Claims			
	4)⊠ Claim(s) <u>1-53</u> is/are pending in the application	n.		
	4a) Of the above claim(s) is/are withdra			
	5) Claim(s) is/are allowed.			
	6) Claim(s) is/are rejected.			
	7) Claim(s) is/are objected to.			
	8) Claim(s) <u>1-53</u> are subject to restriction and/or	r election requirement.		
Αp	plication Papers			
	9) The specification is objected to by the Examin	ner.		
	10)☐ The drawing(s) filed on is/are: a)☐ ac	cepted or b) objected to	by the Examiner.	
	Applicant may not request that any objection to the			
	Replacement drawing sheet(s) including the corre	ction is required if the drawing	(s) is objected to. See 37 CFR 1.121	(d).
•	11) \square The oath or declaration is objected to by the E	Examiner. Note the attache	d Office Action or form PTO-152.	
Pri	ority under 35 U.S.C. § 119			
	12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).	
	 Certified copies of the priority documer 	nts have been received.		
	Certified copies of the priority documer	nts have been received in A	Application No	
	Copies of the certified copies of the price		received in this National Stage	
	application from the International Burea			
	* See the attached detailed Office action for a lis	it of the certified copies not	received.	
Atta	achment(s)			
_	Notice of References Cited (PTO-892)	4) Interview	Summary (PTO-413)	
2) [3) [Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	s)/Mail Date nformal Patent Application (PTO-152)	
<i>□)</i> ∟	Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	6) Other:		

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Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-28 and 42-53, drawn to a method of testing a memory cell and replacing a defective memory cell with a redundant memory cell, classified in class 714, subclass 710.
 - II. Claims 29-32, drawn to a method of handling an address (in a register) associated with a memory cell that has failed a test, classified in class 714, subclass 723.
 - III. Claims 33-41, drawn to a method of checking a semiconductor die and replacing with a <u>column</u> of memory cells, classified in class 714, subclass 711.
- 2. Inventions Group I and Group II are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention Group I has separate utility such as replacing a defective cell with a redundant cell instead of replacing with a whole column of redundant cells. See MPEP § 806.05(d).
- 3. Inventions Group I and Group II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed

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does not require the particulars of the subcombination as claimed because the method of handling an address in a register of group II has novelty other than in the use of the testing of a memory cell. The subcombination has separate utility such as being used in a non-testing memory method.

4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christine T. Tu whose telephone number is (703)305-9689. The examiner can normally be reached on Mon-Thur. 8:30am-6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Albert DeCady can be reached on (703)305-9595. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Christine T. Tu
Primary Examiner
Art Unit 2133

February 20, 2004